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DIALOG(R)File 351:Derwent WPI

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Polyester monofilament for textile fabric, contains thermoplastic elastomer as core component having predefined average diameter

Patent Assignee: TORAY IND INC (TORA); TORAY MONOFILAMENT CO LTD (TORE)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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JP 2000154428	A	20000606	JP 99254022	A	19990908	200038 B
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Priority Applications (No Type Date): JP 98259699 A 19980914

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 2000154428	A	13	D01F-006/92		
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Abstract (Basic): JP 2000154428 A

NOVELTY - A polyester monofilament consists of 0.5-30 weight percent (wt.%) of thermoplastic elastomer (TE). When polyester monofilament is cut perpendicularly in the cross-section along fiber axis, the core component containing elastomer of average diameter of 0.1-5 μm , exists in the shape of circle.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the manufacture of polyester monofilament which involves melt mixing 0.1-8 wt.% of TE pellet with powder of fatty acid metal salt, fatty acid amide, polyolefin, silica, calcium carbonate and/or fluoro resin. The molten mixture is adhered to polyester and melt spinning is performed.

USE - As textile fabric for paper-making industry, filters, belts (claimed) for sanitary product, cement filter, dryer canvas.

ADVANTAGE - The polyester monofilament excels in durability, permeability and antiwear quality. The polyester monofilament is manufactured efficiently.

pp; 13 DwgNo 0/0

Derwent Class: A23; A88; F01; F09; Q64

International Patent Class (Main): D01F-006/92

International Patent Class (Additional): B01D-039/08; D01F-008/14 ;

D03D-001/00 ; D03D-015/00 ; D21F-001/10; D21F-007/08; F16G-001/08